

## Marked-Up Copy of Amended Claims

1. (Amended) A method for monitoring information in a medium, the medium comprising at least one biomolecule, the method comprising the steps of:

screening the medium with a screening means comprising a n number of sensing probes, where n is an integer of at least one so that more than one physical, chemical, or physico-chemical change of a gas or vapor phase of at least one secondary product of the biomolecule, a biomolecule byproduct or the biomolecule which defines the information is detected by the probe to produce at least one signal output;

transferring the signal output to a signal processing means responsive to differences in electromagnetic properties of the signal for generating a final output;

receiving the final output into a pattern recognition means sufficient to generate a measurement pattern of the information; [being operable to define a set of class boundaries; and]

sorting the information in accordance with [the] a set of class boundaries of physical, chemical or physico-chemical changes of the biomolecule representative of the presence and [preferably] quantitative amounts of the biomolecule in the medium; and monitoring the sorted information.

14. (Amended) The method according to claim 1, wherein at least part of the information detected by the probe is changes in [a] the at least one secondary product of the biomolecule.

34. (Amended) A method of claim 1 wherein the biomolecule is [analyzing] at least one of DNA, RNA, AIDS, a nucleotide, [a biomolecule,] or cancer [comprising: analyzing a sample with the apparatus according to claim 33].